

TECHNICAL REPORT



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THE TRENT POTTERY COMPANY (LEICESTER) LIMITED

Regent Street
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Our Ref: **TSSEF19656**

Date: 13 December 2007
Delivery Date: 30 October 2007
Test Dates: 20 November – 10 December 07
Customer Ref.:

For the attention of Rob Price

SAMPLE(S) FOR TEST :

One, Aluminium Framed Chair

TEST REQUIREMENTS :

BS EN 15373:2007 Test Level 2

BS EN 1022:2005

RESULT :

PASS

PASS

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DESCRIPTION

Item: Aluminium Framed Chair
Supplied by: The Trent Pottery Company (Leicester) Limited
See Plates: One – Four

Metal Framed chair with 24 mm diameter back legs that curve along the sides and round the front of the chair creating the seat frame. The 15 mm x 35 mm thick front legs travel up 170 mm past the seat frame becoming the armrests and continue round to the back, where they are met by two 24 mm diameter back support bars from the seat frame. The 430 mm x 390 mm seat and the 370 mm x 290 mm back are faced with wicker and all the metal joints are welded.

All dimensions are approximate.



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BS EN 1022:2005 - STRENGTH AND STABILITY OF FURNITURE

Stability tests for chairs and stools

The stability tests required were carried out in accordance with the Standard. Details of the loads applied and their positions are retained at FIRA and are available on request.

Item: Aluminium Framed Chair

Initial Inspection: No Apparent Faults

Conditioning: N/R

	TEST	RESULT
6.2	Forwards overturning	PASS
6.3	Forwards overturning (with footrest)	N/A
6.4	Sideways overturning (without arms)	N/A
6.5	Sideways overturning (with arms)	PASS
6.6	Rearwards overturning (all seating with backs)	PASS
7.3	Tilting	N/A
7.4	Rocking chairs	N/A
7.5	Reclining chairs (with footrests)	N/A
7.6	Footrest test	N/A
7.7	Reclining chairs (without footrests)	N/A
8.2	Forwards and sideways overturning - calculative (without arms)	N/A
8.3	Sideways overturning - calculative (with arms)	N/A
8.4	Stools, all directions - calculative	N/A
8.5	Accidental overturning - calculative	PASS



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BS EN 15373: 2007 – FURNITURE – STRENGTH, DURABILITY AND SAFETY REQUIREMENTS FOR NON-DOMESTIC SEATING

The strength tests required were carried out in accordance with the standard. Details of the loads applied and their positions of application are retained at FIRA and are available on request.

Item: Aluminium Framed Chair

Test Level: 2

Initial Inspection: No Apparent Faults

Conditioning: N/R

	TEST	RESULT		TEST	RESULT
5.1	General Safety Requirements	PASS	6.1.10	Seat and Back Fatigue Load	PASS
5.2	Shear and Squeeze Points	PASS	6.1.11	Recliner Seat and Back Fatigue Seat Front Edge	N/A
5.3	Stability	PASS	6.1.12	Fatigue	N/A
5.4	Rolling Resistance	N/A	6.1.13	Arm Fatigue Test	PASS
6.1.1	Seat Static Load	PASS	6.1.14	Leg Rest Fatigue Test	N/A
6.1.1	Back Static Load	PASS	6.1.15	Foot Rail Fatigue Test	N/A
6.1.2	Seat Front Edge Static Load	N/A	6.1.16	Leg Rest Fatigue	N/A
6.1.3	Recliner Static Load	N/A	6.1.17	Leg Forward Static Load	PASS
6.1.4	Vertical Static Load on Back	N/A		Leg Sideways Static Load	PASS
6.1.5	Foot Rail Static Load	N/A	6.1.18	Diagonal Base Load	N/A
6.1.6	Arm Sideways Static Load	PASS	6.1.19	Seat Impact	PASS
6.1.7	Wing Sideways Static Load	PASS	6.1.20	Back Impact	PASS
6.1.8	Arm Downwards Static Load	N/A	6.1.21	Arm Impact	PASS
6.1.9	Vertical Upwards Static Load on Arms	N/A	6.1.22	Drop Test	N/A
			6.1.23	Auxiliary Writing Surface Static Load	N/A
			6.1.24	Auxiliary Writing Surface Fatigue Test	N/A

In extreme weather conditions the ambient test temperature and/or humidity may fall outside the requirements of the standard. Such changes have not been shown to affect the validity of the results. Details of the ambient conditions at time of test are available on request.



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CONCLUSION

The Aluminium Framed Chair, as previously described, successfully satisfied the applicable stability test requirements from BS EN 1022:2005.

The Aluminium Framed Chair, as previously described, successfully satisfied the applicable strength and durability test requirements from BS EN 15373:2007 to Test Level 2.

Tested by: L Haines & D Bowey

Reported by: C L Rance

Approved by: P J Reynolds
Testing Manager



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Plate 1: Front of Aluminium Framed Chair



Plate 2: Side of Aluminium Framed Chair



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Plate 3: Rear of Aluminium Framed Chair



Plate 4: Underside of Aluminium Framed Chair